

ABSTRACT

A variable reluctance resolver is provided with an output winding having a reduced effect from externally introduced leakage magnetic flux. A variable reluctance resolver is provided with a resolver excitation winding and a resolver output winding wrapped around multiple stator magnetic poles which respectively output rotary angle X and Y components as a rotor turns. Windings are wound such that the polarities of output voltages on output windings wound around a row of three or more stator magnetic poles will be the same; all of the output windings are divided into an even number, two or greater, of groups, and output windings are serially connected in such a way that adjacent group output voltage polarities mutually differ. Also, the number of turns inside the aforementioned groups is wound so that the number of turns of output windings positioned on each of the adjacent group sides is smaller than the number of turns of the output windings positioned on the inside of the aforementioned output windings in the relevant group.